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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Francisco, Joseph A. et al.

U.S. Serial No: 09/724,406

Filing Date: November 28, 2000

Title: RECOMBINANT ANTI-CD30 ANTIBODIES AND USES THEREOF

Commissioner for Patents Washington, D.C. 20231

DECLARATION BY DR. ROBERT F. GRAZIANO UNDER 37 CFR 1.132 IN SUPPORT OF PUBLIC PROTEST AGAINST US SERIAL NO. 09/724,406

I, Dr. Robert Graziano, declare that:

- I am presently Senior Director of Product Development at Medarex, Inc. in Bloomsbury, New Jersey. I received a B.S. in Biology from Allegheny College in 1978, and a Ph.D. in Biochemistry from Dartmouth College in 1988. My CV is attached hereto as Schedule 1.
- 2. I understand that the claims filed in the above-referenced US Patent Application Serial No: 09/724,406 are directed to (i) methods for treating or preventing Hodgkin's Disease in a subject by administering an antibody in a pharmaceutically acceptable carrier that immunospecifically binds CD30 and exerts a cytostatic or cytotoxic effect on a Hodgkin's Disease cell line, and (ii) to pharmaceutical compositions containing an antibody, which is not AC10 or HeFi-1 nor results from cleavage of AC10 or HeFi-1 with papain or pepsin, in a pharmaceutically acceptable carrier, wherein the antibody immunospecifically binds CD30 and exerts a cytostatic or cytotoxic effect on a Hodgkin's Disease cell line.
 - I am making this declaration to provide evidence that the claims in the above-referenced patent application are not patentable or lack of novelty based on the studies and prior art anti-CD30 antibodies described by Pohl et al., 1993, Int. J. Cancer 54:418-425 and Falini et al., 1992, Brit. J. Haematology 82: 38-45. I am also making this declaration to provide evidence that the claims in the above-referenced application are not patentable for lack of enablement.

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4. Specifically, I conducted the following *in vitro* studies using an anti-CD30 antbody, referred to as HRS-4 (also referred to as Ab1), described by Pohl et al., which showed that this antibody possesses the claimed property of exerting a cytostatic effect on HD cells, as measured in the same cytotostatic cross-linking assay described in the application. In addition, the studies performed by Pohl et al. showed that HRS-4 exerts a cytotoxic effect on HD cells, as measured in the same cytotoxicity complement-inediated assay described in the application, and can be used *in vivo* to treat Hodgkin's Disease in animal models. Thus, the data described herein clearly demonstrates that the studies described by Pohl et al. using HRS-4 anticipate every element of the claimed invention.

In addition, I tested an anti-CD30 antibody, referred to as Ber-H2, described by Falini et al., in the same *in vitro* assay as HRS-4, which showed that this antibody also exerts a cytostatic effect on HD cells. However, contrary to the properties of HRS-4 described by Pohl et al., the studies performed by Falini et al. demonstrated that Ber-H2 does not treat Hodgkin's Disease *in vivo* (in patients). Thus, the data provided herein shows a lack of correlation between the claimed property of exerting a cytostatic or cytotoxic effect on HD cells and the claimed property of being useful for *in vivo* treatment of Hodgkin's disease. As such, the claimed invention in my opinion is not enabled since the application fails to provide any guidance for selecting anti-CD30 antibodies having the claimed therapeutic property of treating Hodgkin's disease and, thus, would require undue experimentation to make and use the invention as claimed.

- 5. The studies that I performed to generate the aforementioned data were conducted using antibodies Ber-H2, HRS-4 and a third prior art anti-CD30 antibody (as a control), referred to as AC-10. I tested these antibodies for their ability to inhibit growth of CD30, using a goat anti-mouse cross-linking antibody, in the following cell lines: L540 (Hodgkin's lymphoma derived cell line with a T cell phenotype), L428 (Flodgkin's lymphoma derived cell line with a B cell phenotype) and Karpas 299 (anaplastic large cell lymphoma derived tumor line). I employed a Ramos cell line (CD30 negative lymphoma) and the anti-murine cross-linking antibody alone in control experiments to confirm binding specificity and growth inhibition of the anti-CD30 antibodies.
- 6. I cultured the cell lines in flat-bottomed, 96-well tissue culture plates in a final volume of 200 μl/well (in triplicate), and added the anti-CD30 antibodies to the cell lines to a final concentration of 2 μg/ml and the secondary cross-linking antibody to a final concentration

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of 8 μ g/ml. After 96 hours, I pulsed the plates with ³H-thymidine (0.5 μ Ci/well) and incubated for an additional four hours before harvesting and counting on a scintillation counter.

- 7. The result of this experiment was that all of the anti-CD30 antibodies inhibited growth of the CD30-expressing L540 cells (Figure 1A), L428 cells (Figure 1B), and Karpas 299 cells (Figure 1C) when cross-linked with the secondary antibody, as shown by a decreased uptake of ³H-thymidine. The cross-linking goat auti-mouse antibody alone did not mediate this growth inhibition. Growth of the CD30 negative lymphoma line, Ramos, was not affected by any of the treatments (Figure 1D). These data demonstrate that the prior art antibodies HRS-4 and Ber-H2 can exert cytostatic or cytotoxic effects on HD cell lines *in vitro*, similarly to the antibodies claimed.
- 8. I understand that any willful false statements made in this declaration are purushable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the accompanying public protest. I declare that all of the foregoing statements made of my own knowledge are true and that all statements made on information and belief are believed by the to be true.

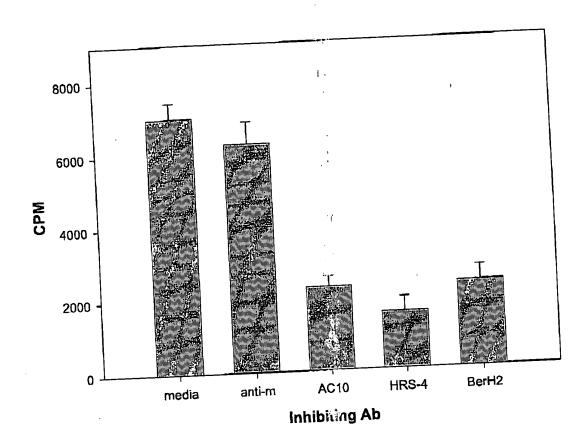
Dated: 4/16/04

Signed:

Robert Graziano, Ph.D.

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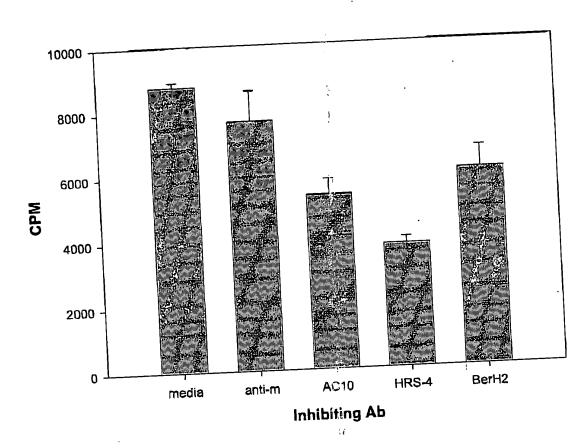
Figure 1A - £540 Cells



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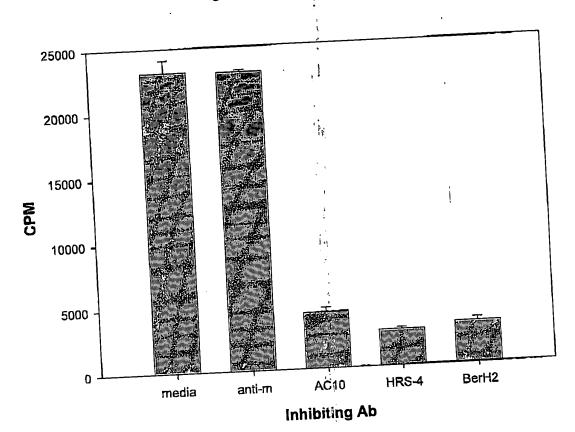
Figure 1B - L428 Cells



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Figure 1C - Karpas 299 Cells

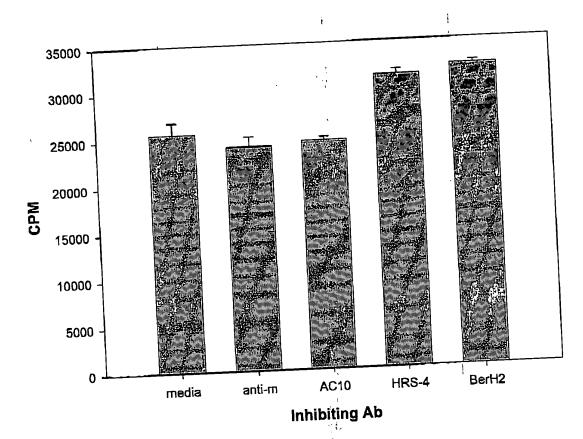


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Figure 1D - Ramos Cells

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Schedule 1

CV for Robert F. Graziano, Ph.D.

PROFESSIONAL EXPERIENCE

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	2002-present
. Development	2001-2002
Senior Director of Product Development	2001 2002
Director of Product Development Director of Product Development 172 West Bloomsbury, NJ 08804	
510 Route 173 West, Bloomsbury, NJ 08804	
Director of Product Development Medarex, Inc., 519 Route 173 West, Bloomsbury, NJ 08804 Medarex, Inc., 519 Route 173 West, Bloomsbury, NJ 08804	
• Manage a team of scientists in the samples and academic institutions	
• Initiate and manage collaborations with the board therapeutics for treatment	
Create, characterize, and develop antibody-based therapedates Create, characterize, and develop antibody-based therapedates of cancer, autoimmune diseases, or infectious diseases utilizing Medarex's of cancer, autoimmune diseases, or infectious diseases utilizing Medarex's	
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Provide for an intermediate-scale antibody production and purificulty	
• Responsible for all message	1998-2001
A Development	1996-1998
Associate Director of Research and Development	1990-1990
Associate Director of Research and Development Assistant Director of Research Annandale, NJ 08801	
Assistant Director of Research and Boveland Medarex, Inc., 1545 Route 22 East, Annandale, NJ 08801 Medarex, Inc., 1545 Route 25 East, Annandale, NJ 08801	
Medarex, Inc., 1949 to the for 10 scientists	
• Supervised a stati of 10 solements	
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of tumor vaccines	
of tumor vaccines	1993-1996
Principal Scientist Appandale, NJ 08801	
Principal Scientist Medarex, Inc., 1545 Route 22 East, Annandale, NJ 08801 Medarex, Inc., 1545 Route 22 East, Annandale, NJ 08801	
Medarex, Inc., 1545 Route 22 East, Annandale, NJ 08801 • Responsible for the construction and characterization of chemically-linked	
• Responsion to	
bispecific antibodies development, quality control, and production groups	
bispecific antibodies • Provided support for assay development, quality control, and production groups	1992-1993
	1332-1333
Senior Staff Scientist	
Senior Staff Scientist Medarex, Inc., 12 Commerce Ave., West Lebanon, NH Medarex, Inc., 12 Commerce Ave., West Lebanon, NH Medarex, Inc., 12 Commerce Ave., West Lebanon, NH	
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	1992-1993
Adjunct Assistant Professor	
Adjunct Assistant A School Department of Microbiology, Lebanon, 1911	
Adjunct Assistant Professor Dartmouth Medical School, Department of Microbiology, Lebanon, NH	1981-1984
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Research Assistant Dartmouth Medical School, Department of Microbiology, Hanover, NH Dartmouth Medical School, Department of Microbiology, Hanover, NH Dartmouth Medical School, Department of Microbiology, Hanover, NH	
Dartmouth Medical School, Department of Microbiology, Tanton on human leukocytes	
Dartmouth Medical School, Department of Microbiology, Handver, Generated monoclonal antibodies to cell surface receptors on human leukocytes	
• Ocherates man-	1979-1981
Research Assistant Newstrant of Microbiology, Cleveland, OH	
Research Assistant Case Western Reserve University, Department of Microbiology, Cleveland, OH	
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EDUCATION

Postdoctoral Research Associate Washington University School of Medicine, Department of Pathology, St. Louis, MO Washington University School of Medicine T cell hybridomas specific for	1989-1992
Washington University School of Medicine, Department Generated and characterized murine T cell hybridomas specific for HIV-encoded proteins	1988-1989
Postdoctoral Research Associate Dartmouth College, Department of Microbiology, Hanover, NH Characterized the structure and function of human Fc receptors	
• Oldaws	June, 1988
Ph.D. Biochemistry – Dartmouth College, Microbiology/Immunology Departments, Hanover, NH (1984-1988) • Thesis: Cytotoxic trigger molecules on human myeloid cells	
• Thesis: Cytotoxic trigger	June, 1978
B.S. Biology – Allegheny College, Meadville, PA (1974-1978)	

PROFESSIONAL AFFILIATIONS

American Association of Immunologists (AAI)

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PATENTS (List limited to published US filings)

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US 6,682,928 Cells expressing anti-Fc receptor binding components
US 6,410,690 Therapeutic compounds comprised of anti-Fc receptor antibodies
US 6,395,272 Therapeutic compounds comprised of anti-Fc receptor antibodies
LIS 6 365 161 Therapeutic compounds comprised of anti-Fc receptor binding agents
US 6,303,755 Therapeutic multispecific compounds comprised of anti-FcA receptor antibodies
US 6 270 765 Therapeutic compounds comprised of anti-Fc receptor antibodies
US 6.193.966 Therapeutic multispecific compounds comprised of anti-Fcα receptor antibodies
US 5,922,845 Therapeutic multispecific compounds comprised of anti-Fcα receptor antibodies
US 5,837,243 Therapeutic compounds comprised of anti-Fc receptor antibodies
US 20040006215 Human monoclonal antibodies against CD30
US 20040005318 Methods of treatment using CTLA-4 antibodies
US 20040003316 Metabolic US 20020032312 Therapeutic compounds comprised of anti-Fc receptor antibodies
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